



Subt. Form PTO-1449

INFORMATION DISCLOSURE
IN AN APPLICATION

(Use several sheets if necessary)

Sheet 1 OF 2

Docket Number

HYB-005US3

Application Number

10/694,418

Applicant

Kandimalla

Filing Date

October 27, 2003

Group Art Unit

NA/648

U.S. Patent Documents

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ell	5,149,798	09/22/92	Agrawal et al.	536	27	

Foreign Patent Documents

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
ell	WO99/62923		PCT				

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)

ell	C1.	Khorana et al. (1972) "Studies on Polynucleotides," <i>J. Molec. Biol.</i> 72:209
	C2.	Reese (1978) "The Chemical Synthesis of Oligo- and Poly-Nucleotides By The Phosphotriester Approach," <i>Tetrahedron</i> 34:3143-3179
	C3.	Beaucage et al. (1981) "Deoxynucleoside Phosphoramidites - A New Class of Key Intermediates for Deoxypolynucleotide Synthesis," <i>Tetrahedron Lett.</i> 22:1859-1862
	C4.	Connolly et al. (1984) "Synthesis and Characterization of an Octanucleotide Containing the EcoRI Recognition Sequence With A Phosphorothioate Group At The Cleavage Site," <i>Biochemistry</i> 23:3443
	C5.	Agrawal et al. (1987) "Oligodeoxynucleotide Methylphosphonates: Synthesis and Enzymic Degradation," <i>Tetrahedron Lett.</i> 28(31):3539-3542
	C6.	Jager et al. (1988) Oligonucleotide N-Alkylphosphoramidates: Synthesis and Binding to Polynucleotides," <i>Biochemistry</i> 27:7237
	C7.	Agrawal et al. (1988) "Oligodeoxynucleoside Phosphoramidates and Phosphorothioates As Inhibitors of Human Immunodeficiency Virus," <i>Proc. Natl. Acad. Sci. USA</i> 85:7079-7083
	C8.	Zon et al. (1991) "Phosphorothioate Oligonucleotides" <i>Oligonucleotides and Analogues: A Practical Approach</i> pp. 87-108
	C9.	Kuramoto et al. (1992) "Oligonucleotide Sequences Required For Natural Killer Cell Activation," <i>Jpn. J. Cancer Res.</i> 83:1128-1131
	C10.	Crooke (1993) "An Overview of Progress In Antisense Therapeutics," <i>8 Antisense & Nucl. Acid Drug Dev.</i> 115-122 CRC Press, Boca Raton, Florida
	C11.	Zon (1993) "Protocols for Oligonucleotides and Analogs," <i>Methods In Molecular Biology</i> Vol. 20, pp. 165-189
	C12.	Pisetsky et al. (1994) "Stimulation of Murine Lymphocyte Proliferation By A Phosphorothioate Oligonucleotide With Antisense Activity For Herpes Simplex Virus," <i>54 Life Sci.</i> 101
	C13.	Yamamoto et al. (1994) "Lipofection of Synthetic Oligodeoxyribonucleotide Having a Palindromic Sequence of AACGTT to Murine Spenocytes Enhances Interferon Production and Natural Killer Activity," <i>38 Microbiol. Immunol.</i> 831
	C14.	Agrawal et al. (1995) "Modified Oligonucleotides as Therapeutic and Diagnostic Agents," <i>Curr. Opin. Biotechnol.</i> 6:12-19
	C15.	Krieg et al. (1995) "CpG Motifs In Bacterial DNA Trigger Direct B-Cell Activation," <i>Nature</i> 371:546-549
	C16.	Klinman et al. (1996) "CpG Motifs Present In Bacterial DNA Rapidly Induce Lymphocytes to Secrete Interleukin 6, Interleukin 12, and Interferon γ ," <i>93 Proc. Natl. Acad. Sci. USA</i> 2879
	C17.	Liang et al. (1996) "Activation of Human B Cells By Phosphorothioate Oligodeoxynucleotides," <i>J. Clin. Invest.</i> 98:1119-1129
	C18.	Zhao et al. (1996) "Effect of Different Chemically Modified Oligodeoxynucleotides on Immune Stimulation," <i>Biochem. Pharm.</i> 51:173-182
✓	C19.	Chu et al. (1997) "CpG Oligodeoxynucleotides Act As Adjuvants That Switch On T Helper 1 (Th1) Immunity," <i>186 J. Exp. Med.</i> 1623

EXAMINER

Emily Le

DATE CONSIDERED

7/26/07

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.

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NA 1648

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OF

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22	C20.	Dunford et al. (1997) "Antisense 97: Targeting the Molecular Basis of Disease" (Nature Biotechnology) Conference Abstract, pp. 40
	C21.	Sparwasser et al. (1997) "Macrophages Sense Pathogens Via DNA Motifs: Induction of Tumor Necrosis Factor- α -Mediated Shock," 27 <i>Eur. J. Immunol.</i> 1671
	C22.	Zhao et al. (1997) "Pattern and Kinetics of Cytokine Production Following Administration of Phosphorothioate Oligonucleotides in Mice," 7 <i>Antisense Nucleic Acid Drug. Dev.</i> 495
	C23.	McCluskie et al. (1998) "Cutting Edge: CpG DNA Is A Potent Enhancer of Systemic and Mucosal Immune Responses Against Hepatitis B Surface Antigen with Intranasal Administration to Mice," <i>J. Immunol.</i> 161:4463-4466
	C24.	Moldoveanu et al. (1998) "CpG DNA, A Novel Immune Enhancer for Systemic and Mucosal Immunization With Influenza Virus," <i>Vaccine</i> 16:1216-1224
	C25.	Sparwasser et al. (1998) "Bacterial DNA and Immunostimulatory CpG Oligonucleotides Trigger Maturation and Activation of Murine Dendritic Cells," 28 <i>Eur. J. Immunol.</i> 2045
	C26.	Tokunaga et al. (1999) "How BCG Led to the Discovery of Immunostimulatory DNA," 52 <i>Jap. J. Infect. Dis.</i> 1
	C27.	Zhao et al. (1999) "Site of Chemical Modifications in CpG Containing Phosphorothioate Oligodeoxynucleotide Modulates Its Immunostimulatory Activity," <i>Bioorg. & Med. Chem. Lett.</i> 9:3453-3458
	C28.	Agrawal et al. (2000) "Antisense Therapeutics: Is It As Simple As Complementary Base Recognition," 6 <i>Mol. Med. Today</i> 72
	C29.	Zhao et al. (2000) "Immunostimulatory Activity of CpG Containing Phosphorothioate Oligodeoxynucleotide Is Modulated by Modification of a Single Deoxynucleoside," <i>Bioorg. & Med. Chem. Lett.</i> 10:1051-1054
	C30	Agrawal et al., "Antisense therapeutics", <i>Curr. Opin.Chem. Biol.</i> , 2:519-528, 1998.
	C31	Chaix et al., "3'-3' Linked Oligonucleotides: Synthesis and Stability Studies", <i>Bioorg. & Med.Chem.</i> , 6:827-832, 1996.
	C32	Klinman, "therapeutic Applications of CpG-Containing Oligodeoxynucleotides", <i>Antisense & Nucl. Acid Drug Dev.</i> , 8:181-184, 1998.
	C33	Yu et al., "Accessible 5'-End of CpG-Containing...", <i>Bioorganic & Medicinal Chemistry Lett.</i> , 10:2585-2588, 2000
	C34	Kandimalla et al., "Effect of Chemical Modifications...", <i>Bioorganic & Medicinal Chemistry</i> , 9:807-813, 2001.
	C35	International Search Report (PCT APP. No. PCT/US01/30137)

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